

What is claimed is:

1. A multilayer circuit board,

comprising:

a plurality of cable layers, each of which includes electric conductive sections;

a plurality of first insulating layers, each of which encloses said electric conductive sections in each cable layer and fills spaces between said electric conductive sections; and

post vias electrically connecting said electric conductive sections in one cable layer to those in another cable layer,

wherein height of said electric conductive sections in each cable layer are equal to that of said first insulating layer enclosing those electric conductive sections.

2. The multilayer circuit board according to claim 1,

further comprising a second insulating layer, which is formed to enclose said post vias,

wherein height of said post vias are equal to that of said second insulating layer.

3. A method of manufacturing a multilayer circuit board,

comprising the steps of:

forming a plurality of cable layers, each of which includes electric conductive sections;

forming a plurality of first insulating layers, each of which encloses said electric conductive sections in each cable layer; and

forming post vias, which electrically connect said electric conductive sections in one cable layer to those in another cable layer,

wherein said electric conductive sections of each cable layer are formed by the steps of:

forming a first electric conductive layer;

forming a first resist layer, whose thickness is equal to that of said electric conductive sections to be formed, on a surface of said first electric conductive layer;

etching said first resist layer so as to expose parts of said first electric conductive layer corresponding to said electric conductive sections to be formed; and

executing electrolytic plating on the exposed parts of said first electric conductive layer so as to cast up said exposed parts and form said electric conductive sections until height of said electric conductive sections are made higher than that of said first resist layer;

forming a first stopper metal layer on said first resist layer and said electric conductive sections, which have been casted up by electrolytic plating; and

abrading said electric conductive sections until the height of said electric conductive sections are made equal to that of said first resist layer.

4. The method according to claim 3,

wherein said electric conductive sections of each cable layer are further treated by the steps of:

removing said first stopper metal layer and said first resist layer;

removing the exposed parts of said first electric conductive layer; and

forming said first insulating layer so as to enclose said electric conductive sections and fill spaces there between.

5. The method according to claim 3,

wherein said electric conductive sections of each cable layer are further treated by the steps of:

removing said first stopper metal layer and said first resist layer;

removing the exposed parts of said first electric conductive layer;

forming said first insulating layer so as to cover said electric conductive sections and fill spaces there between;

forming a second stopper metal layer on said first insulating layer; and

abrading said first insulating layer on said electric conductive sections until the height of said electric conductive sections are made equal to that of said first insulating layer.

6. The method according to claim 3,

wherein said post vias are formed by the steps of:

forming a second electric conductive layer on said electric conductive sections and said first insulating layer;

forming a second resist layer on said second electric conductive layer;

forming via holes in said second resist layer; and

executing electrolytic plating in said via holes so as to form said post vias.

7. The method according to claim 6,

further comprising the steps of:

forming a third stopper metal layer on said second resist layer and said post vias; and

abrading said post vias until the height of said post vias are made equal to that of said second resist layer.

8. The method according to claim 6,

further comprising the steps of:
removing said second resist layer;
forming a second insulating layer, which covers and encloses said post vias;
forming a fourth stopper metal layer on said second insulating layer;
and
abrading parts of said second insulating layer corresponding to said post vias until the height of said post vias are made equal to that of said second insulating layer.

9. The method according to claim 3,
wherein said cable layers, said insulating layers and said post vias are formed on both sides of a core board.
10. The method according to claim 3,
wherein said resist layer is treated to improve hardness thereof.